CLAIM AMENDMENTS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1 - 11 (canceled).

Claim 12 (currently amended): A method for exchanging signaling information between a PRA ISDN connection and a packet-oriented exchange via a peripheral adapter, comprising:

processing by the packet-oriented exchange signaling information transferred from the PRA ISDN connection signaling information of a BRA ISDN connection out of a plurality of BRA ISDN connections;

adapting in the peripheral adapter the signaling information transferred from the PRA ISDN connection in accordance with the ISDN connection type of the BRA ISDN connection; and

adapting signaling information transferred from the packet-oriented exchange to the peripheral adapter in accordance with the ISDN connection type of the PRA ISDN connection, wherein the PRA ISDN connection is represented by said plurality of BRA ISDN connections in the packet-oriented exchange, and

wherein call identifiers of said plurality of BRA ISDN connections are adapted in said peripheral adapter with respect to uniqueness within the D-channel of said PRA ISDN connection and wherein call identifiers transmitting via the D-channel of said PRA ISDN connection in the direction of said packet-oriented exchange are allocated to the D-channels of said plurality of BRA ISDN connections without adaption.

Claim 13 (previously presented): The method according to claim 12, further comprising: representing different ISDN connections by a single connection type in the packet-oriented exchange wherein the connection type of the PRA ISDN connection differs from the single connection type, by which the different ISDN connections are represented in the packet oriented exchange; exchanging the signaling information between the PRA ISDN connection and the packet-oriented exchange; and adapting the exchanged signaling information in the peripheral adapter in accordance with the different ISDN connection types.

Claim 14 (previously presented): The method according to claim 13, wherein adapting the exchanged signaling information ensues according to a mapping of data channels differentiated for the respective different ISDN connection types.

Claim 15 (previously presented): The method according to claim 14, wherein the mapping ensues via a table in the peripheral adapter.

Claim 16 (canceled).

Claim 17 (previously presented): The method according to claim 14, wherein a concentration of the data channels ensues as part of the mapping.

Claim 18 (previously presented): The method according to claim 14, wherein a call identifier and a bearer channel reference are adapted according to the mapping of the data channels.

Claim 19 (previously presented): The method according to claim 12, wherein a DSS1 protocol is used between the PRA ISDN connection and the peripheral adapter, and a connection is permanently maintained on a layer of the DSS1 protocol.

Claim 20 (previously presented): The method according to claim 14, wherein the exchanged signaling information is converted via the peripheral adapter for controlling a data channel according to the mapping of the data channels.

Claim 21 (previously presented): The method according to claim 20, wherein a protocol selected from the group consisting of Media Gateway Control Protocol and H.248 protocol is used between the peripheral adapter and the packet-based exchange for signaling the control of the data channel.

Claim 22 (currently amended): A peripheral adapter for a connection of an ISDN private branch exchange or ISDN terminal to a packet network, comprising a resource for adapting signaling information transferred from a PRA ISDN connection to a packet-oriented exchange for the purpose of the signaling information being processed by the ~~packet-based~~ packet-oriented exchange as signaling information of BRA ISDN connections, wherein said peripheral adapter is adapted to adapt call identifiers of a plurality of BRA ISDN connections with respect to uniqueness within the D-channel of said PRA ISDN connection and wherein said peripheral adapter is adapted to allocate call identifiers transmitted via the D-channel of said PRA ISDN connection in the direction of said packet-oriented exchange to the D-channels of said plurality of BRA ISDN connections without adaptation.

Claim 23 (previously presented): The peripheral adapter according to claim 22, wherein the adapter is adapted to adapt signaling information that corresponds with different ISDN connection types; and for adapting the signaling information via a mapping of data channels differentiated for the respective ISDN connection types.

Claim 24 (previously presented): The peripheral adapter according to claim 23, further comprising a table for adapting signaling information according to the mapping of the data channels.

Claim 25 (previously presented): The peripheral adapter according to claim 22, wherein the different ISDN connection types are given by a BRA connection at a packet-switched network end and the PRA ISDN connection at an ISDN connection end.

Claim 26 (previously presented): The peripheral adapter according to claim 23, wherein the adapter is further adapted to adapt a call identifier and a bearer channel reference.

Claim 27 (previously presented): The peripheral adapter according to claim 22, wherein the adapter is designed as an IAD or an MTA.

Claim 28 (previously presented): The method according to claim 12, wherein in said peripheral adapter via a conversion table up to two data channels of said BRA ISDN connection are mapped to up to two data channels of said PRA ISDN connection, wherein said PRA ISDN connection is a physical PRA ISDN connection and wherein each BRA ISDN connection out of said plurality of BRA ISDN connections is a logical BRA ISDN connection of said packet-oriented exchange.

Claim 29 (canceled).